## Commonwealth of Kentucky

Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

# STATE ORIGIN AIR QUALITY PERMIT

Permittee Name: Green Valley Landfill General Partnership

Mailing Address: P.O. Box 9, Rush, Kentucky 41168

Source Name: Green Valley Landfill

Mailing Address: 100 Addington Road, Ashland, Kentucky 41102

Source Location: 100 Addington Road, Ashland, Kentucky

KYEIS ID #: 21-089-00034

**SIC Code:** 4953

Region: Ashland County: Greenup

Permit Number: S-01-055 Log Number: G428

**Permit Type:** Minor Construction/Operating

Issuance Date: April 5, 2001 Expiration Date: April 5. 2006

> John E. Hornback, Director Division for Air Quality

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### **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application which was determined to be complete on February 25, 2000, the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in the Regulation 401 KAR 50:035, Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

### 01 Municipal Solid Waste Landfill

**<u>Description:</u>** A municipal solid waste landfill constructed, reconstructed, or modified on

or after May 30, 1991 and having a design capacity equal to or greater than

2.5 million megagrams and 2.5 million cubic meters.

#### **APPLICABLE REGULATIONS:**

40 CFR 60, Subpart WWW-Standards of Performance for Municipal Solid Waste Landfills 40 CFR 61, Subpart M-National Emission Standard for Asbestos 401 KAR 63:010, Fugitive Emissions 401 KAR 63:015, Flares

### 1. Operating Limitations: § 60.752(b)(1)(A)

- A. A landfill with calculated emissions of NMOC (non-methane organic compounds) greater than 50 Mg (megagrams) per year shall install a gas collection and control system.
  - Whether active or passive, collection systems shall be designed to handle the
    maximum expected gas flow rate from the entire area of the landfill that warrants
    control over the intended use period of the gas control or treatment system equipment.
    - a) Gas shall be collected from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period 5 years or more if active, or 2 years or more if close or at final grade.
    - b) Active systems shall collect gas at a sufficient extraction rate to reduce surface emissions of methane to less than 500 ppm, and to minimize off-site migration of subsurface gas.
    - c) Passive systems shall be installed with liners on the bottom and all sides in all areas in which gas is to be collected. Liners shall be installed as required under § 258.4.
  - 2. Each owner or operator of a controlled landfill shall place the gas collection wells or alternative design components as specified in a design plan which has been approved by the division. § 60.755(b)

§ 60.759(a)

- a) The permittee shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the following procedures unless alternative procedures have been approved by the division.
- 1. The collection devices within the interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design:

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

depths of refuse, refuse gas generation rates, and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat.

- 2. The sufficient density of gas collection devices determined in a) above shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior.
- 3. The placement of gas collection devices determined in a) above shall control all gas producing areas, with the following exceptions:
  - i. Any segregated area of asbestos or nondegradable material may be excluded from collection if documented as provided in **Specific Recordkeeping Requirements**.
  - ii. Any nonproductive area of the landfill may be excluded from control, provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. The amount location and age of the material shall be documented and provided to the division upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the following equation:

$$Q_i = 2 k L_0 M_i (e^{-k}t_i)(C_{NMOC})(3.6 \times 10^{-9})$$

where  $Q_i = NMOC$  emission rate from the  $i^{th}$  section, megagrams per year and all other terms have the meanings assigned below in **Calculation for NMOC Emissions**.

iii. The values for k and C NMOC determined in field testing shall be used if field testing has been performed in determining the NMOC emission rate or the radii of influence (this distance from the well center to a point in the landfill where the pressure gradient applied by the blower or compressor approaches zero) If field testing has not been performed, the default values for k, L  $_{\circ}$  and C  $_{\text{NMOC}}$  shall be 0.05 per year, 170 cubic meters per megagram, and 4000 ppm by volume as hexane respectively. The mass of nondegradable solid waste contained within the given section may be subtracted from the total mass of the section when estimating emissions provided the nature, location, age, and amount of the nondegradable material has been documented.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

§ 60.755(b)

- 3. Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:
  - a) 5 years or more if the landfill is active; or
  - b) 2 years or more if closed or at final grade.

#### 4. Collection System Physical Requirements: § 60.759(b)

- A. The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: convey projected amounts of gases; withstand installation, static and settlement forces; and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration.
- B. Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion including, for example, centering of pipes and placement of gravel backfill. Collection devices shall be designed so not to allow indirect short circuiting of air into the cover or refuse into the collection system or gas into the air. Any gravel used around pipe perforations should be of a dimension so as not to penetrate or block perforations.
- C. Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous material of suitable thickness.

#### **Calculation for NMOC Emissions:** § 60.754(a)

Default values for k, L  $_{\circ}$  and C  $_{\text{NMOC}}$  shall be 0.05 per year, 170 cubic meters per megagram, and 4000 ppm by volume as hexane respectively. These are to be used for either equation. For landfills located in an area with a thirty year annual average precipitation of less than 25 inches, as measured at the nearest representative official meteorological site, the k value shall be 0.02 per year.

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

If the actual year to year solid waste acceptance rate is known:

$$M_{\text{\tiny NMOC}} = \sum_{i=1}^{n} 2 \text{ k L }_{\circ} M_{i} \text{ (e}^{-k} t_{i}) \text{(C NMOC)} (3.6 \text{ X } 10^{-9})$$

where.

 $M_{\text{NMOC}}$  = Total NMOC emission rate from the landfill, megagrams per year

k = methane generation rate constant, year <sup>-</sup>1

Lo= methane generation potential, cubic meters per megagram solid waste

 $M_i$  = mass of solid waste in the i th section, megagrams

 $t_i$  = age of the i th section, years

 $C_{NMOC}$  = concentration of NMOC, parts per million by volume as hexane

 $3.6 \times 10^{-9} = conversion factor$ 

The mass of nondegradable solid waste may be subtracted from the total mass of solid waste in a particular section of the landfill when calculating the value for  $M_i$  if documentation of the nature and amount of such wastes is maintained.

If the actual year to year solid waste acceptance rate is <u>not</u> known:

$$M_{NMOC} = 2L_0 R (e^{-kc} - e^{-k} t) (C_{NMOC}) (3.6 \times 10^{-9})$$

where,

 $M_{\text{NMOC}}$  = mass emission rate of NMOC, megagrams per year

Lo = methane generation potential, cubic meters per megagram solid waste

R = average annual acceptance rate, megagrams per year

k = methane generation rate constant, year -1

t = age of landfill, years

 $C_{NMOC}$  = concentration of NMOC, parts per million by volume as hexane

c = time since closure, years. For active land-fill, c = O and  $e^{-kc} = 1$ 

 $3.6 \times 10^{-9} = conversion factor$ 

The mass of nondegradable solid waste may be subtracted from the average annual acceptance rate when calculating a value for R, if documentation of the nature and amount of such wastes is maintained.

- B. If the calculated NMOC mass emission rate is less than 50 Mg per year, the permittee shall submit an emission rate report as detailed in **Reporting Requirements**.
- C. If the calculated NMOC mass emission rate is greater than 50 Mg per year, the permittee shall either:
  - 1. Submit a collection and control plan prepared by a professional engineer to the division within one year,
  - 2. Install a collection and control system within 30 months after the first annual report in which the emission rate equals or exceeds 50 Mg per year or,
  - 3. Determine the site specific NMOC concentration by sampling, and substitute this value into the equation above to determine  $M_{\text{NMOC}}$  per year.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

If upon recalculation, the annual NMOC emission rate is greater than 50 Mg per year, the permittee shall either:

- a) Comply with B.1 and B.2 of this section or,
- b) Determine the site-specific methane generation rate constant and recalculate M<sub>NMOC</sub> using the site-specific methane generation rate constant (k) and the site-specific NMOC concentration determined by sampling.

If upon recalculation, the annual NMOC emission rate is greater than 50 Mg per year, the permittee shall comply with B.1 and B.2 of this section.

D. If calculation using the site-specific NMOC emission rate or using that and the site -specific methane generation rate constant shows an annual NMOC emission rate less than 50 Mg per year, the permittee shall submit an emission rate report as detailed in **Reporting Requirements**.

#### E. **Asbestos** § 61.154(c)

At the end of each operating day, or at least once every 24- hour period while the site is in continuous operation, asbestos containing waste material deposited at the site during the operating day or the previous 24- hour period shall:

- 1. Be covered with at least 15 centimeters (6 inches) of compacted nonasbestoscontaining material, or
- 2. Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the division. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.

#### F. 401 KAR 63:010, Fugitive Emissions

- A. The permittee shall not cause, suffer, or allow any material to be handled, processed, transported, or stored, or a road to be used without taking reasonable precaution to prevent particulate matter form becoming airborne. Such reasonable precautions shall include when applicable, but not be limited to the following:
  - 1. Use, where possible, of water or chemicals for control of dust in construction operations, grading of roads and clearing of land;
  - 2. Application and maintenance of asphalt, oil, water, or suitable chemicals on reads, materials stockpiles, and other surfaces which can create airborne dusts;
  - 3. Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;
  - 4. The maintenance of paved roadways in a clean condition;

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. The prompt removal of earth or other material from a paved street which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water.

### 2. Emission Limitations:

#### 1. § 60.753(d)

The methane concentration shall be less than 500 ppm above background at the surface of the landfill. This applies at all times except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices.

#### 2. § 60.752(b)(2)(iii)

Gas collected from the landfill must be controlled by either:

- A. An open flare designed and operated in accordance with § 60.18, or
- B. A control system designed and operated to reduce NMOC 98% by weight, which if that control system is an enclosed combustor can alternatively reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3% oxygen, or
- C. A treatment system that processes the collected gas for subsequent sale or use. Any gas vented atmospherically shall be subject to the requirements of A. or B. of this section.
- 3. 401 KAR 63:015, No person shall cause, suffer, or allow the emission into the open air of particulate matter from any flare which is greater than twenty (20) percent opacity for more than three (3) minutes in any one (1) day.
- 4. 401 KAR 63:010, The permittee shall not cause or permit the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate.
- 3. <u>Testing Requirements</u>: The owner or operator of a controlled landfill shall conduct a performance test of the control system to determine reduction efficiency for NMOC or parts per million by volume of NMOC. The test must be completed no later than 180 days after the initial startup of the approved control system. The permittee shall use Method 25C or Method 18 of appendix A of 40 CFR 60 to determine compliance with <u>Emission Limitations</u>.

See also Section G (d) of this permit.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### 4. **Specific Monitoring Requirements:**

#### Monthly, at Each Wellhead: § 60.755(a)(5)

The permittee shall monitor the gauge pressure in the gas collection header and either nitrogen or oxygen concentration. If a well exceeds one of the operating parameters below, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the division for approval.

The permittee shall not be required to expand the system as required above if the exceedance occurs within the first 180 days after gas collection system startup.

1. Gauge pressure in the gas collection header shall be negative. § 60.753(b)

### **Exceptions to the Requirement of Negative Pressure in the Header:**

- A. A fire or increased well temperature
- B. If using a geomembrane or synthetic cover, the permittee shall develop acceptable pressure limits in the collection and control system design plan.
- C. If a well is decommissioned positive static pressure may be experienced after it is shut down to accommodate declining flows.

§ 60.753(c)

- 2. The nitrogen level in the gas collection system shall be less than 20%. Method 3C shall be used to determine nitrogen levels unless an alternative test method has been approved by the division.
- 3. The oxygen level in the gas collection system shall be less than 5%. An oxygen meter using Method 3A shall be used to determine oxygen levels unless an alternative test method has been approved by the division. The following exceptions to Method 3A shall be allowed:
  - a) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span.
  - b) A data recorder is not required.
  - c) Only two calibration gases are required, a zero and a span, and ambient air may be used as the span.
  - d) A calibration error check is not required.
  - e) The allowable sample bias, zero drift, and calibration drift are + 10 percent.
- 4. The permittee shall monitor the temperature of the landfill gas. The temperature shall not exceed 55° C.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

§ 60.753(d)

Quarterly, at the Surface: The methane concentration shall be less than 500 parts per million above the background level at the surface of the landfill. The permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals, (or a site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. Areas with steep slopes or other dangerous areas may be excluded from monitoring. The following procedures are to be used for compliance:

#### § 60.755(d)

- Methane concentrations shall be measured on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the approval of the division. A closed landfill with no monitored exceedances in three consecutive quarterly monitoring periods may perform monitoring annually thereafter. A reading of 500 ppm or greater will require reversion to quarterly monitoring.
  - a) The portable analyzer shall meet the instrument specifications provided in section 3 of Method 21 of appendix A of 40 CFR Chapter 60, except that "methane" shall replace all references to VOC.
  - b) The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air.
  - c) To meet the performance evaluation requirements in section 3.1.3 of Method 21 of appendix A of 40 CFR Chapter 60, the instrument evaluation procedures of section 4.4 of Method 21 of appendix A of 40 CFR Chapter 60 shall be used.
  - d) The calibration procedures provided in section 4.2 of Method 21 of appendix A of 40 CFR Chapter 60 shall be followed immediately before commencing a surface monitoring survey.

#### § 60.755(c)

- 2. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.
- 3. Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of Appendix A to 40 CFR 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.
- 4. Any reading of 500 ppm or more above background shall be recorded as an exceedance and the following actions shall be performed. As long as these specified actions are taken, the exceedance is not considered a violation of § 60.753(d)
  - a) The location of each monitored exceedance shall be marked and recorded.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- b) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 days calendar days of detecting the exceedance.
- c) If re-monitoring shows a second exceedance, additional corrective action shall be taken
  and the location shall be monitored again within 10 days of the second exceedance.
  If the re-monitoring shows a third exceedance for the same location in the same
  quarterly monitoring period, see e) below for action to be taken.
- d) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm above background at the 10 day re-monitoring shall be re-monitored in 1 month from the date of the initial exceedance. If the 1 month re-monitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1 month re-monitoring shows an exceedance, the procedure in c) is repeated.
- e) For any location where monitored methane concentration equals or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the division for approval.

#### 5. Control Device Monitoring: § 60.756(c)

**If Using an Open Flare:** The permittee shall install a heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

If using an Enclosed Combustor including Enclosed Flares: The permittee shall calibrate, maintain, and operate according to the manufacturer's specifications a temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of  $\pm 1$  % of the temperature being measured expressed in degrees Celsius, or  $\pm 0.5^{\circ}$ C, whichever is greater. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity greater than 44 megawatts.

### Whether using an Open Flare or an Enclosed Combustor

There shall also be a device to record flow to, or bypass of the flare. The permittee shall either:

- 1. Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or
- 2. Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

§ 60.756(d)

**If using a control device other than an open flare or an enclosed combustor:** The permittee shall provide to the division information that satisfactorily describes the operation of the control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures.

## 5. <u>Specific Recordkeeping Requirements</u>:

§ 60.758(f)

A. Landfill owners or operators who convert design capacity from volume to mass or mass to volume to demonstrate that landfill design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, as provided in the definition of "design capacity", shall keep readily accessible, on-site records of the annual recalculation of site-specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

§ 60.758(b)

B. Unless an alternative to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions has been proposed, each owner or operator of an MSW landfill with a design capacity equal to or greater than 2.5 million Mg and 2.5 million cubic meters shall keep up-to-date, readily accessible, on-site records of each applicable item below.

#### i. Records to be kept a minimum of 5 years

§ 60.758(a)

A.1. The design capacity report which triggered construction of a collection and control system, the current amount of solid waste in place, and the year-by-year waste acceptance rate. Records may be maintained off-site provided they are retrievable within 4 hours. Paper or electronic records are acceptable.

§ 60.758(c)

2. Continuous records of the equipment operating parameters specified to be monitored in **Specific Monitoring Requirements**, as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

§ 60.758(c)

3. All collection and control system **exceedances** of the conditions in **Specific Monitoring Requirements**, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

§ 60.758(c)

- B. 1. Continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under § 60.756.
  - 2. If using a boiler or process heater with a design heat input capacity of 44 megawatts or greater to comply with the permittee shall record of all periods of operation of the boiler or process heater. (Examples of such records could include records of steam use, fuel use, or monitoring data collected pursuant to other State, local, Tribal, or Federal regulatory requirements.)
  - If using an open flare the permittee shall keep continuous records of the flame or flare pilot flame monitoring specified under <u>Specific Monitoring</u>
     <u>Requirements</u>, and of all periods of operation in which the flame or flare pilot flame is absent.
- ii. **Exceedances:** § 60.758(c)(1)
  - A. The following constitute exceedances that shall be recorded and reported:
    - 1. For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28°C below the average combustion temperature during the most recent performance test at which compliance was demonstrated.
    - 2. For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone.

#### iii. Records to be kept for the Life of the Control Equipment § 60.758(b)

- A. Each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records of the data listed in paragraphs (A)(1) through (A)(4) of this section as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.
  - a) The maximum expected gas generation flow rate as calculated in
     <u>Specific Reporting Requirements</u> below. The owner or operator may use another method to determine the maximum gas generation flow rate, if the

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- method has been approved by the division.
- b) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in **Operating Limitations**.
- 2. If using an enclosed combustion device other than a boiler or process heater with a design heat input capacity equal to or greater than 44 megawatts:
  - (i) The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test.
  - (ii) The percent reduction of NMOC achieved by the control device. The percent reduction shall be determined as specified in either Method 25C or Method 18 in appendix A, 40 CFR 63. When calculating efficiency the permittee shall use the equation below.

Control efficiency =  $(NMOC_{IN} - NMOC_{OUT})/(NMOC_{IN})$ 

where,  $NMOC_{IN} = mass$  of NMOC entering control device  $NMOC_{OUT} = mass$  of NMOC exiting control device

- 3. **If using a boiler or process heater of any size**: a description of the location at which the collected gas vent stream is introduced into the boiler or process heater over the same time period of the performance testing.
- (4) **If using an open flare:** the flare type (i.e., steam-assisted, air-assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in § 60.18; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.

### **Records to be kept for the Life of the Collection System:** § 60.758(d)

- 1. A plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.
- 2. The installation date and location of all newly installed collectors as specified in **Operating Limitations**.
- 3. Documentation of the nature, date of deposition, amount, and location of asbestos containing or nondegradable waste as well as any non-productive areas excluded from collection as described in **Operating Limitations**.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

§ 61.154

For all asbestos-containing waste material received, the permittee shall:

- 1. Maintain waste shipment records using the form in Attachment C to this permit or a similar form which includes the following information:
  - i. The name, address, and telephone number of the waste generator, and of the transporter (if different).
  - ii. The quantity of the asbestos-containing waste material in cubic meters (cubic yards).
  - iii. The presence of improperly enclosed or uncovered waste, or any asbestoscontaining waste material not sealed in leak-tight containers. See also **6. Specific Reporting Requirements** .
  - iv. The date of receipt.
- 2. As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
- 3. Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, the permittee shall report this as described below in **6. Specific Reporting Requirements**.
- 4. Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
- 5. § 60.116b(b) The permittee shall keep records showing the dimensions, and an analysis showing the capacity of storage vessels having:
  - A. Capacity greater than or equal to 151 m<sup>3</sup> (39890 gallons) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psi), or
  - B. Capacity greater than or equal to  $75 \text{ m}^3$  (19813 gallons) but less than  $151 \text{ m}^3$  (39890 gallons) storing a liquid with a maximum true vapor pressure less than 15.0 kPa (2.2 psi).

#### **6.** Specific Reporting Requirements:

§ 60.757(a)

A. The permittee shall submit an initial design capacity report no later than ninety days after the date of commenced construction, reconstruction, or modification.

The design capacity report shall contain:

1. The date of commencement of construction:

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- 2. A map or plot of the landfill, providing the size and location of the landfill, and identifying all areas where solid waste may be landfilled according to the permit issued by the Division of Waste Management.
- 3. The maximum design capacity of the landfill.
- B. An amended design capacity report shall be submitted to the division providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill to or above 2.5 million megagrams and 2.5 million cubic meters.

### § 60.757(b)

- C. The permittee shall submit an NMOC emission rate report to the division initially and annually thereafter unless:
  - 1. The estimated NMOC emission rate is less than 50 megagrams per year in each of five years, the permittee may elect to submit an estimate of the NMOC emission rate for the next five year period in lieu of the annual report. This estimate shall include the current amount of solid waste in place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is bases shall be provided to the division. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the division. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. or;
  - 2. The permittee has installed a collection and control system in compliance with §60.752(b)(2). The permittee shall not be required to submit an annual NMOC emission rate estimate during such time as the collection and control system is in operation and in compliance with the conditions of this permit.

#### § 60.757(c)

- D. The permittee shall submit a collection and control system design plan to the division within 1 year of the first report in which the NMOC emission rate exceeds 50 megagrams per year with these exceptions:
  - 1. If the permittee elects to recalculate the emission rate using the actual NMOC concentration as detailed in <u>Operating Limitations</u>, and the resulting NMOC emission rate is less than 50 Mg/yr, annual periodic reporting shall be resumed until the calculated emission rate is equal to or greater than 50 Mg/yr. The revised NMOC emission rate report shall be submitted within 180 days of the first calculated exceedance of 50 Mg/yr.

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- 2. If the permittee elects to recalculate the emission rate using the site-specific methane generation rate constant (k) as detailed in <u>Operating Limitations</u>, B, and the resulting NMOC emission rate is less than 50 Mg/yr, annual periodic reporting shall be resumed until the calculated emission rate is equal to or greater than 50 Mg/yr. The revised NMOC emission rate report shall be submitted within 180 days of the first calculated exceedance of 50 Mg/yr.
- E. The owner or operator of a controlled landfill shall submit a closure report to the division within 30 days of waste acceptance cessation.
- F. The owner or operator of a controlled landfill shall submit an equipment removal report to the division 30 days prior to removal or cessation of operation to the control equipment.

The equipment removal report shall contain all of the following items:

- 1. A copy of the closure report;
- 2. A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and
- 3. Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 Mg or greater of NMOC per year.

#### § 60.757(g)

- G. Within 60 days of reaching maximum production, but no later than 180 days after startup, each owner or operator complying by installation of a collection and control system must submit an initial performance test report as required under § 60.8 which includes the following items:
  - A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;
  - 2. The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.
  - The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;
  - 4. The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and
  - 5. The provisions for control of off-site migration; and

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill.

§ 60.755(a)

A) For the purposes of calculating the maximum expected gas generation flow rate one of the following equations shall be used. The k and Lo kinetic factors should be those published in the most recent Compilation of Air Pollutant Emission Factors (AP–42) or other site specific values demonstrated to be appropriate and approved by the U.S. EPA. If k has been determined by testing the value of k determined from the test shall be used. A value of no more than 15 years shall be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus estimated number of years until closure.

For sites with unknown year-to-year waste acceptance rate:

$$Q_m = 2L_o R (e^{-kc} - e^{-kt})$$
 where.

 $Q_{\mathrm{m}}$  = maximum expected gas generation flow cubic meters per year

 $L_{\text{o}}=$  methane generation potential, cubic meters per megagram solid waste

 $R = average \ annual \ acceptance \ rate, \ megagrams \ per \ year$ 

k = methane generation rate constant, year 1

t = age of the landfill at equipment installation plus the time the owner or operator intends to use the gas mover equipment or active life of the landfill, whichever is less. If the equipment is installed after closure, t is the age of the landfill at installation, years

c= time since closure, years (for an active landfill, c= O and  $e^{-kc}=$  1)

B) For sites with known year-to-year solid waste acceptance rate:

$$Q_{M} = \sum_{i=1}^{n} 2 k L_{o} M_{i} (e^{-kt} i)$$

where.

 $Q_{\rm M}$  = maximum expected gas generation flow rate, cubic meters per year

k = methane generation rate constant, year 1

 $L_o$  = methane generation potential, cubic meters per megagram solid waste

 $M_i$  = mass of solid waste in the i th section, megagrams

 $t_i$  = age of the i th section, years

C) If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

conjunction with, the equations in paragraphs A) and B) of this section. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the equations in paragraphs A) and B) or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment.

#### § 60.757(f)

- H. Each owner or operator of a landfill using an active collection system shall submit to the division annual reports of the following recorded information:
  - 1. Value and length of time of exceedance for applicable parameters monitored in **Specific Monitoring Requirements**.
  - 2. Description and duration of all periods when either: the gas stream is diverted from the control device through a bypass line; or a bypass is indicated by the gas flow rate monitoring device described in **Specific Monitoring Requirements**: **5. Control Device Monitoring.**
  - 3. Description and duration of all periods when the control device was not operating for a period exceeding 1 hour.
  - 4. All periods when the collection system was not operating in excess of 5 days.
  - 5. The location of each exceedance of the 500 ppm methane concentration and the concentration recorded at each location for which an exceedance was recorded in the previous month.
  - 6. The date of installation and the location of each well or collection system expansion added pursuant to **Specific Monitoring Requirements:** 4. e).

#### **I. Asbestos Reporting Requirements:**

- 1. The permittee shall report, in writing, by the following working day, the presence of a significant amount of improperly enclosed or uncovered asbestos-containing waste in any load received. The report shall be sent to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and if different, the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B). A copy of the waste shipment record shall be included in the report.
- 2. The permittee shall report, in writing, any discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received if not resolved within 15 days after receiving the waste. The report shall be sent to the local,

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## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and if different, the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B). The report shall describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.

- 3. The permittee shall submit to the division upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
- 4. The permittee shall notify the division in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at waste disposal site and is covered. If the excavation begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the division at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:
  - A. Scheduled starting and completion dates.
  - B. Reason for disturbing the waste.
  - C. Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the division may require changes in the emission control procedures to be used.
  - D. Location of any temporary storage site and the final disposal site.

#### 7. Specific Control Equipment Operating Conditions:

§ 60.753(e)

- A. In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one hour.
- B. The control or treatment system shall be operated at all times when collected gas is routed to the system.

§ 60.754(b)

C. The permittee shall calculate the NMOC emission rate for purposes of determining when the system can be removed using the following equation:

$$M_{NMOC} = 1.89 \; x \; 10^{\text{--}3} \; Q_{LFG} \; C_{NMOC}$$

where,

 $M_{NMOC}$  = mass emission rate of NMOC, in megagrams per year

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

 $Q_{LFG}$  = flow rate of landfill gas, in cubic meters per minute

 $C_{NMOC}$  = NMOC concentration, in parts per million by volume as hexane

- 1.  $Q_{LFG}$  shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of section 4 of Method 2E of appendix A of 40 CFR 60.
- 2.  $C_{\text{NMOC}}$  shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25C or Method 18 of appendix A of 40 CFR 60. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The permittee shall divide the NMOC concentration from Method 25C by six to convert from  $C_{\text{NMOC}}$  as carbon to  $C_{\text{NMOC}}$  as hexane.
- 3. The permittee may use another method to determine  $Q_{LFG}$  and  $C_{NMOC}$  if the method has been approved by the U.S. EPA.
- **8.** <u>Alternate Operating Scenarios</u>: Provisions exist within Subpart WWW for the use of alternatives to many of the requirements, subject to approval of the Division for Air Quality, and in some instances the U.S. EPA. Any alternatives approved for the permittee may be found in Section H. of this permit.

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### **SECTION C - GENERAL CONDITIONS**

### A. Administrative Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be (a) violation(s) of State Regulation 401 KAR 50:035, Permits, Section 7(3)(d) and is grounds for an enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.

- 2. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 50:035 Section 12
- 3. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [401 KAR 50:035 Section 7(3)(k)]
- 4. The permit contained herein may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition. [401 KAR 50:035 Section 7(3)(f)]
- 5. The permit does not convey property rights or exclusive privileges. [401 KAR 50:035 Section 7 (3)(g)]
- 6. The permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in State Regulation 401 KAR 50:038, Air emissions fee. [401 KAR 50:035 Section 7(3)(h)]
- 7. Nothing in this permit shall alter or affect the authority of the U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 50:035 Section 8(3)(a)]
- 8. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 50:035 Section 8(3)(b)]
- 9. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 50:035 Section 7(2)(b)5]

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### SECTION C - GENERAL CONDITIONS (CONTINUED)

### B. Recordkeeping Requirements

1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [401 KAR 50:035 Section 7(1)(d)2 and 401 KAR 50:035 Section 7(2)(c)]

2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to State Regulation 401 KAR 50:035, Permits, Section 6.

## C. Reporting Requirements

- 1. a. In accordance with the provisions of Regulation 401 KAR 50:055, Section 1 the owner or operator shall notify the Division for Air Quality's Ashland Regional Office concerning startups, shutdowns, or malfunctions as follows:
  - i. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
  - b. In accordance with the provisions of Regulation 401 KAR 50:035, Section 7(1)(e)2, the owner or operator shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition 1 a) above) to the Division for Air Quality's Ashland Regional Office.
- 2. The permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking, reissuing, or terminating this permit, or to determine compliance with this permit. [401 KAR 50:035, Section 7(2)(b)3e and 401 KAR Section 7(3)(j)]
- 3. Summary reports of any monitoring required by this permit shall be submitted to the Division's Ashland Regional Office at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.

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### **SECTION C - GENERAL CONDITIONS (CONTINUED)**

The reports are due within 30 days after the end of each six month reporting period which commences on the initial issuance date of this permit. The permittee may shift to semi-annual reporting on a calendar year basis upon approval of the regional office. If calendar year reporting is approved, the semi-annual reports are due January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to Section 6(1) of Regulation 401 KAR 50:035, Permits. All deviations from permit requirements shall be clearly identified in the reports.

### **D.** Inspections

- 1. In accordance with the requirements of Regulation 401 KAR 50:035, Permits, Section 7(2)(c) the permittee shall allow the Cabinet or an authorized representative to perform the following:
  - a. Enter upon the premises where a source is located or emissions-related activity is conducted, or where records are kept;
  - b. Have access to and copy, at reasonable times, any records required by the permit:
    - i. During normal office hours, and
    - ii. During periods of an emergency when prompt access to records is essential to proper assessment by the Cabinet;
  - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times shall include, but are not limited to the following:
    - i. During all hours of operation at the source,
    - ii. For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
    - iii. During an emergency; and
  - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times shall include, but are not limited to the following:
    - i. During all hours of operation at the source,
    - ii. For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
    - iii. During an emergency.

## **E.** <u>Emergencies/Enforcement Provisions</u>

- 1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [401 KAR 50:035 Section 7(3)(e)].
- 2. Pursuant to State Regulation 401 KAR 50:035, Permits, Section 9, an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:

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### **SECTION C - GENERAL CONDITIONS (CONTINUED)**

a. An emergency occurred and the permittee can identify the cause of the emergency;

- b. The permitted facility was at the time being properly operated;
- c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
- d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency if the notice met the requirement of State Regulation 401 KAR 50:035, Permits, Section 7(1)(e)2, and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
- 3. Emergency provisions listed in General Condition E.2 are in addition to any emergency or upset provision contained in an applicable requirement.
- 4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 50:035 Section 9(3)].

## F. Compliance

- 1. <u>Permit Shield</u> Except as provided in State Regulation 401 KAR 50:035, Permits, compliance by the affected facilities listed herein with the conditions of this permit shall be deemed to be compliance with all applicable requirements identified in this permit as of the date of the issuance of this permit.
- 2. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
  - a. Pursuant to State Regulation 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by State Regulation 401 KAR 50:055, Section 1.
  - b. All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and non routine maintenance performed on each control device.
- 3. Pursuant to Regulation 401 KAR 50:035, Permits, Section 7(2)(b), the permittee shall annually complete and return a Compliance Certification Form (DEP 7007CC) to the Division's Ashland Regional Office in accordance with the following requirements:
  - a. Identification of each term or condition of the permit that is the basis of the certification;
  - b. The compliance status regarding each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent; and

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### **SECTION C - GENERAL CONDITIONS (CONTINUED)**

d. The method used for determining the compliance status for the source, currently and over the reporting period, pursuant to 401 KAR 50:035, Section 7(1)(c),(d), and (e).

- e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
- f. The certification shall be postmarked by the thirtieth (30) day following the applicable permit issuance anniversary date, or by January 30th of each year if calendar year reporting is approved by the regional office. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality Ashland Regional Office 3700 13<sup>th</sup> Street Ashland, KY 441105 Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601

## **G.** New Construction Requirements:

For Emission Point 01

- 1. Pursuant to State Regulation 401 KAR 50:035, Permits, Section 13(1), unless construction is commenced on or before 18 months after the date of issue of this permit, or if construction is commenced and then stopped for any consecutive period of 18 months or more, then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Extensions of the time periods specified herein may be granted by the Division upon a satisfactory request showing that an extension is justified.
- 2. Pursuant to State Regulations 401 KAR 50:035, Permits, Section 7(2)(d) and 401 KAR 59:005, General provisions, Section 3(1), within 30 days following construction commencement, the owner and/or operator of the affected facilities specified on this permit shall furnish to the Division's Ashland Regional Office, with a copy to the Division's Frankfort Central Office, the following:
  - a. Date when construction commenced, (See General Condition G.1).
  - b. Start-up date of the affected facility listed on this permit.
- 3. a. Pursuant to State Regulation 401 KAR 59:005, General provisions, Section 2(1), this permit shall allow time for the initial start-up, operation and performance testing of the affected facilities listed herein. However, within 60 days after achieving the maximum production rate at which the affected facilities will be operated, but not later than 180 days after initial start-up of such facilities, the owner or operator shall conduct performance tests on the gas control system and furnish the Division's Frankfort office a written report of the results of such performance tests

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## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

b. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1.(1), at least 30 days prior to the date of the required performance test(s), the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort office. The protocol form shall be utilized by the Division to determine if a pretest meeting is required. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least 10 days prior to the test(s).

- c. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.
- 4. Operation of the affected facilities authorized by this permit shall not commence until compliance with applicable standards specified herein has been demonstrated in accordance with the requirements of State Regulation 401 KAR 50:035, Permits, Section 13(4).

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## **SECTION D - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

<u>Description</u> <u>Generally Applicable Regulation</u>

 Leachate Storage Tanks
 40 CFR 60, Subpart Kb-Standards of Performance for Volatile Organic Liquid Storage Vessels for Which

Construction, Reconstruction, or Modification

Commenced After July 23, 1984